

INTERNATIONAL SUMMER COURSE



***Bridging Global Health Gaps:  
Stronger Systems, Healthier  
Lives, Sustainable Future***

21 - 27 July 2025,  
Faculty of Medicine, Universitas Sumatera Utara (USU), Medan, Indonesia



**Universitas  
Sumatera Utara**



**Transformation  
Towards the Ultimate**



**SingHealth DukeNUS  
ACADEMIC MEDICAL CENTRE**

**GLOBAL HEALTH  
INSTITUTE**

# ***Bridging Global Health Gaps: Stronger Systems, Healthier Lives, Sustainable Future***



One of the fundamental principles of global health is the belief that everyone deserves equal access to health care, particularly those who are vulnerable. Achieving health equity requires concerted efforts from multiple sectors to reach marginalized populations and address the underlying social determinants of health.

Global health is an interdisciplinary field that addresses health challenges and disparities that transcend national boundaries. In today's interconnected world, no country can thrive in isolation, and health issues often have far-reaching impacts on economies, politics, and societies worldwide. The recent emergence of the COVID-19 pandemic has underscored the importance of global health security. The pandemic has demonstrated how quickly infectious diseases can spread across borders and disrupt economies and societies on a global scale.

Furthermore, rapid advancements in technology and the widespread availability of big data have raised new challenges and opportunities for enhancing global health security. Therefore, advocacy and collaboration are essential components of effective global health initiatives. By fostering strategic partnerships, stakeholders can drive research, policy changes, and health system-strengthening efforts to address global health challenges more effectively.

Recognizing the significance of global health in addressing pressing global issues, the Faculty of Medicine, Universitas Sumatera Utara (USU), Indonesia in collaboration with SingHealth DukeNUS Global Health Institute (SDGHI), has developed a summer course on Global Health. This week-long course aims to provide participants with a comprehensive understanding of global health issues and their implications for achieving Universal Health Coverage (UHC) and the Sustainable Development Goals (SDGs) by 2030.

Throughout the course, participants will have the opportunity to learn from top experts with diverse backgrounds and experiences from around the world. They will explore the interconnected nature of global health challenges, examine case studies of successful global health interventions, and develop practical skills for advocating for positive change in their communities. By equipping participants with knowledge, skills, and resources, the Global Health summer course seeks to empower them to become agents of change in addressing current health inequities and promoting a healthier, more equitable world for all.

## *Learning Outcomes*



## ***Knowledge of Global Health Issues:***

Students will gain an understanding of key global health challenges, including infectious diseases, non-communicable diseases, and social determinants of health.

## ***Understanding of Local Health Context:***

Students will learn how global health issues manifest at the local level within communities, considering factors such as culture, socioeconomic status, infrastructure, and access to healthcare.

## ***Problem-Solving Skills:***

Students will cultivate skills in identifying local health challenges and designing evidence-based strategies to address them, drawing from lessons learned from global health approaches.

## ***Interdisciplinary Perspective:***

Students will appreciate the interdisciplinary nature of global health, integrating knowledge from fields such as medicine, health, and social science to address health disparities effectively and efficiently.

## ***Collaboration and Leadership:***

Students will have opportunities to collaborate with peers, community stakeholders, and experts in the field to develop and implement health promotion initiatives aimed at improving community well-being.



# *Time & Place*

Date : 21–27 July 2025

Venue : Faculty of Medicine, Universitas Sumatera Utara (USU), Medan, Indonesia

Format : In-person and online participation available

# *Prerequisites*

We welcome applicants with a medical background from undergraduate medical students, medical doctors to consultants; public health students and professionals; and other health professionals.

# *Course Overview*

The course is a 6-day course with a mixture of lectures, small group discussion, table-top exercise, practical sessions at the parasitology and molecular laboratory, and visit to the field. Our course covers topical global health issues with experience sharing of the local North Sumatra issues. The participants will learn numerous transferrable skills.

# *Topics*

## *Global Health*

- Achieving the SDGs through global health action
- Global health: The path to health equity
- Global mental health
- Strengthening health system resilience in current global health
- Health transformation in Indonesia
- Universal health coverage in Indonesia

## *Emerging & Re-emerging Diseases*

- Emerging and re-emerging infectious diseases in Indonesia: Why should we care?
- Beyond COVID-19: The next wave of emerging respiratory infections
- Zoonotic diseases with potential threats to humans
- Resurgence of the preventable: The emerging threat of vaccine-preventable diseases
- Dengue fever: A persistent challenge in global health
- Advances in pathogen genomics for disease surveillance and response in Asia
- Digital health transformation in Indonesia: Progress and way forward

## ***The Silent Burden of NCDs***

- The burden of non-communicable diseases in developing countries
- Beyond the workplace: How occupational risk factors drive non-communicable diseases
- The triple threat: Air pollution, tobacco, and lung cancer in developing nations — risks and solutions
- Chronic obstructive pulmonary disease in resource-limited settings: Addressing the gaps in prevention and treatment
- Dementia in global health: Prevention, care, and the path to better lives
- Beyond pharmaceuticals: How complementary medicine is shaping global health

## ***Program Planning & Workshop***

- Health promotion models
- Programme planning, monitoring, and evaluation models

## ***Laboratory Visit***

- Basic parasitology examination
- PCR and RT-PCR
- Whole genome sequencing

## ***Table-top Exercise***

## ***Field Trip***

# Speakers from

*Indonesian National Insurance Agency  
(Badan Penyelenggara Jaminan Kesehatan)*

*Kyung Hee University, South Korea*

*Ministry of Health Republic of Indonesia*

*Saw Swee Hock School of Medicine  
National University of Singapore, Singapore*

*SingHealth Duke-NUS Global Health  
Institute, Singapore*

*Universitas Sumatera Utara, Indonesia*

# Schedule

## *Day-1, 21 July 2025: Introduction to Global Health*

08:00 - 09:15	Opening Ceremony
09:15 - 10:00	Achieving the SDGs Throught Global Health Action <b>Assoc. Prof. Limin Wijaya</b> SingHealth Duke-NUS Global Health Institute, Singapore
10:00 - 10:45	Global Health: The Path to Health Equity <b>dr. Putri C. Eyanoer, MS.Epi, Ph.D</b> Universitas Sumatera Utara, Indonesia
10:45 - 11:00	Coffee Break
11:00 - 11:45	Global Mental Health <b>Dr. Anna Claire Stona</b> SingHealth Duke-NUS Global Health Institute, Singapore
11:45 - 12:30	Strengthening Health System Resilience in current Global Health climate <b>Prof. Hsu Li Yang</b> Saw Swee Hock School of Medicine National University of Singapore, Singapore
12:30 - 13:30	Lunch/Prayer Break
13:30 - 14:30	Health Transformation in Indonesia <b>Indonesian Ministry of Health</b> Ministry of Health Republic of Indonesia, Indonesia
14:30 - 15:30	Universal Health Coverage in Indonesia <b>dr. Donny Hendrawan, M.P.H</b> Indonesian National Insurance Agency, Indonesia
15:30 - 15:45	Coffee Break

## *Day-2, 22 July 2025: Emerging & Reemerging Diseases*

08:30 - 09:15	Emerging and Reemerging Infectious Diseases in Indonesia: Why Should We Care? <b>dr. Fauzi Budi Satria, M.P.H., Ph.D</b> Universitas Sumatera Utara, Indonesia
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09:15 - 10:00	<p>Beyond COVID-19: the Next Wave of Emerging Respiratory Infections</p> <p><b>dr. Ananda Wibawanta Ginting,</b>  <b>M.Ked(PD)., Sp.PD-KP</b>  Universitas Sumatera Utara, Indonesia</p>
10:00 - 10:30	Coffee Break
10:30 - 11:15	<p>Zoonotic Diseases with Potential Threats to Humans</p> <p><b>Dr Ruklanthi De Alwis</b>  SingHealth Duke-NUS Global Health Institute, Singapore</p>
11:15 - 12:00	Interactive Discussion 1
12:00 - 13:00	Lunch/Prayer Break
13:00 - 13:45	<p>Resurgence of the Preventable: the Emerging Threat of Vaccine Preventable Diseases</p> <p><b>Prof. dr. Ayodhia Pitaloka Pasaribu, M.Ked(Ped)., Sp.A(K)., Ph.D(CTM)</b>  Universitas Sumatera Utara, Indonesia</p>
13:45 - 14:30	<p>Dengue Fever: a Persistent Challenge in Global Health</p> <p><b>dr. Inke Nadia D. Lubis, PGDip PID, M.Ked(Ped)., Sp.A, Ph.D</b>  Universitas Sumatera Utara, Indonesia</p>
14:30 - 15:00	Coffee Break
15:00 - 15:45	<p>Building Outbreak Resilience: Lessons from three Pandemics</p> <p><b>Dr. Paul Pronyk</b>  SingHealth Duke-NUS Global Health Institute, Singapore</p>
15:45 - 16:30	<p>Digital Health Transformation in Indonesia: Progress and Way Forward</p> <p><b>Dewi Nur Aisyah, S.K.M., M.Sc., DIC., Ph.D</b>  Ministry of Health Republic of Indonesia, Indonesia</p>
16:30 - 17:15	Interactive Discussion 2

## ***Day-3, 23 July 2025: The Silent Burden of NCDs***

08:30	-	09:15	The burden of Non-Communicable Diseases in Developing Countries <b>Prof. Chow WC</b> SingHealth Duke-NUS Global Health Institute, Singapore
09:15	-	10:00	Beyond the Workplace: How Occupational Risk Factors Drive Non-Communicable Diseases <b>Prof. Gan WH</b> SingHealth Duke-NUS Global Health Institute, Singapore
10:00	-	10:30	Coffee Break
10:30	-	11:15	The Triple Threat: Air Pollution, Tobacco, and Lung Cancer in Developing Nations - Risks and Solutions <b>Prof. Dr. dr. Noni Novisari Soeroso, M.Ked(Paru)., Sp.P(K)</b> Universitas Sumatera Utara, Indonesia
11:15	-	12:00	Interactive Discussion 3
12:00	-	13:00	Lunch/Prayer Break
13:00	-	13:45	Chronic Obstructive Pulmonary Disease in Resource-Limited Settings: Addressing the Gaps in Prevention and Treatment <b>Dr. dr. Andika Pradana, M.Ked(Paru)., Sp.P(K)</b> Universitas Sumatera Utara, Indonesia
13:45	-	14:30	Dementia in Global Health: Prevention, Care, and the Path to Better Lives <b>dr. Fasihah Irfani Fitri, M.Ked(Neu)., Sp.S(K)</b> Universitas Sumatera Utara, Indonesia
14:30	-	15:00	Coffee Break
15:00	-	15:45	Beyond Pharmaceuticals: How Integrative Medicine is Shaping Global Health? <b>Bonglee Kim, M.D(KMD), Ph.D</b> Kyung Hee University, South Korea
15:45	-	16:30	Interactive Discussion 4

## ***Day-4, 24 July 2025: Program Planning & Workshop***

09:00 - 10:00	Health Promotion Models (Health Belief Model, Social Cognitive theory, etc.) <b>Ms. Natasha Tai</b> SingHealth Duke-NUS Global Health Institute, Singapore
10:00 - 10:30	Coffee Break
10:30 - 11:15	Programme Planning, Monitoring, and Evaluation Models: (eg.PRECEDE-PROCEED) <b>dr. Putri C. Eyanoer, MS.Epi, Ph.D</b> Universitas Sumatera Utara, Indonesia
11:15 - 12:00	Programme Planning, Monitoring, and Evaluation Models: (eg.RE-AIM) <b>dr. Putri C. Eyanoer, MS.Epi, Ph.D</b> Universitas Sumatera Utara, Indonesia
12:00 - 13:00	Lunch/Prayer Break
13:00 - 14:00	RCC USU-SDGHI Funded Projects Presentation Universitas Sumatera Utara, Indonesia <ol style="list-style-type: none"><li><b>dr. Putri C. Eyanoer, MS.Epi, Ph.D</b></li><li><b>Prof. Dr. dr. Sarma Nursani L. Raja, M.Ked(OG), Sp.OG(K)</b></li><li><b>dr. Badai Buana Nasution M.Ked(Ped), Sp.A(K)</b></li><li><b>dr. Ivana Alona</b></li><li><b>Dr. dr. Taufik Sungkar, M.Ked(PD)., Sp.PD., KGEH</b></li></ol>
14:00 - 14:30	Coffee Break
14:30 - 15:30	RCC USU-SDGHI Funded Projects Presentation Universitas Sumatera Utara, Indonesia <ol style="list-style-type: none"><li><b>Dr. Eka Lestari Mahyuni, SKM., M.Kes</b></li><li><b>Dr. dr. Andika Pradana, M.Ked(Paru)., Sp.P(K)</b></li><li><b>dr. Evita Mayasari, M.Kes., Ph.D</b></li><li><b>Dr. dr. Sake Juli Martina, Sp.F.K</b></li></ol>

## ***Day-5, 25 July 2025: Laboratory Visit***

08:30 - 09:15	Genomic Applications in Resource-Limited Settings to Improve Health Outcome <b>dr. Tryna Tania, M.Sc., Sp.MK</b> RS Cipto Mangunkusumo / Universitas Sumatera Utara, Indonesia
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09:15 - 09:30	Coffee Break
09:30 - 12:30	Visit to Parasitology & Molecular Laboratories Universitas Sumatera Utara, Indonesia 1. Malaria: Identification of Plasmodium spp. <b>Prof. Dr. dr. Lambok Siahaan, MKT., Sp.KKLP., Sp.ParK, M.BioEt</b>  2. Peripheral Blood Smear for Blood Parasite Detection <b>dr. Hemma Yulfi, DAP&amp;E., M.Med.Ed</b>  3. SARI Surveillance Using Molecular Methods <b>dr. Ranti Permatasari, Sp.PK., Subsp.P.I.(K)</b>  4. NGS Analysis For Outbreak Detection <b>dr. R. Lia Kusumawati, M.Biomed., Sp.MK.(K), Ph.D</b>
12:30 - 13:30	Lunch/Prayer Break

***Day-6, 26 July 2025: Field Trip and Table-of Exercise***

***Day-7, 27 July 2025: Field Trip***

*Registration is free,*

*for more information visit:*

<https://fk.usu.ac.id>  
or email to:  
[collabs.fk@usu.ac.id](mailto:collabs.fk@usu.ac.id)

*Registration link:*

<https://bit.ly/SummerCourseFK2025Registration>



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Our Website: <https://fk.usu.ac.id>  
Instagram: [@officialfkusu](https://www.instagram.com/officialfkusu)



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